

PREMIER AVIATION, INC.
2617 Aviation Pkwy.
Grand Prairie, TX 75051

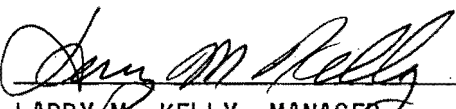
DWG. NO. B09-62001
STC SH7744SW

FAA APPROVED
ROTORCRAFT FLIGHT MANUAL SUPPLEMENT
FOR
BELL MODEL 412 HELICOPTER
REGISTRATION NO. _____
SERIAL NO. _____
WITH SEARCHLIGHT
(SPECTROLAB SX-16 NIGHTSUN OR SPECTROLAB SX-5E STARBURST)

The information in this document is FAA approved material which together with the basic rotorcraft flight manual is applicable and must be carried in the basic manual when the aircraft is modified by the installation of the Searchlight installed in accordance with STC SH7744SW.

The information contained herein supplements, or supercedes the basic rotorcraft flight manual only in those areas listed herein. For limitations, procedures and performance information not contained in this supplement, consult the basic rotorcraft flight manual.

FAA APPROVED:


LARRY M. KELLY, MANAGER
ROTORCRAFT CERTIFICATION OFFICE
FEDERAL AVIATION ADMINISTRATION
DEPARTMENT OF TRANSPORTATION
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FAA APPROVED: MAR 27 1990
PAGE 1 of 4
REVISION B: OCT 14 1992
Revision C: AUG 05 1993

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LOG OF REVISIONS

REVISION	DATE	PAGE(S)	DESCRIPTION	FAA APPROVED
A	5/3/90	3	Remove VFR limitation; Add FLIR compatability	<i>H. R. Hitt</i>
B	OCT 14 1992	1, 3	Added SX-5E to document. Changed Nightsun designations to Searchlight.	<i>H. R. Hitt</i>
C	8/5/93	4	Corrected clerical error: Item 3, 2nd paragraph, direction and focus switch is installed on <u>collective</u> control instead of <u>cyclic</u> control.	<i>H. R. Hitt</i>

FAA APPROVED: 3/27/90
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STC SH7744SW

GENERAL DESCRIPTION

The Searchlight is mounted beneath the forward fuselage lower surface on centerline.

SECTION 1: OPERATING LIMITATIONS

1. The installation of FLIR 2000 Imager in accordance with STC SH7745SW is approved as optional equipment with this STC.
2. High skid gear required with this modification.
3. Actual weight and balance shall be determined after installation of the Searchlight and ballast installed, if necessary to return empty weight C.G. within allowable limits.
4. The Searchlight must be stowed and green stow light "ON" prior to takeoff or landing.
5. Placards required in view of pilot:

"DO NOT OPERATE SEARCHLIGHT BELOW 50 FEET. SEARCHLIGHT MUST BE STOWED FOR TAKEOFF AND LANDING."

SECTION 2: NORMAL PROCEDURES

1. PREFLIGHT CHECK - EXTERIOR

Quick mount bracket: Pins installed, cables secured

Searchlight: Stowed; forward and level.

2. PRESTART CHECK - INTERIOR

Searchlight control box master switch: OFF

Stow switch: STOW

Stow light: GREEN "ON"

SECTION 2: NORMAL PROCEDURES (Cont'd)

3. INFLIGHT PROCEDURES

OPERATION

Master Switch: "ON"

Pilot/Copilot switch: As desired

Stow switch: "OFF"

Turn start, on/off switch to "ON", then hold to "START" position until lamp ignites. Release switch to "ON" position.

Focus is operated by depressing the spring-loaded push button switch. The beam will change continuously while holding the switch down, changing from wide to narrow and back to wide again, and will stop when switch is released.

Direction and focus can be switched to the pilot's collective after start-up is accomplished on the remote control. This switch is labeled "Pilot/Co-pilot".

4. DESCENT AND LANDING

Searchlight: "OFF"

Stow switch: Stow

Searchlight stowed: Green light "ON"

CAUTION: Landings on other than flat, firm surfaces should be exercised with caution. Insure searchlight is stowed and green indicator light is illuminated prior to landing.

SECTION 3: EMERGENCY PROCEDURES

No change

PERFORMANCE

No change